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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE FEB 1 5 2007 DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled;

NOVEL NANOCOMPOSITES AND THEIR APPLICATION AS MONOLITH COLUMNS

the specification of which was filed on May 3, 2004 as Application No. PCT/US2004/013721 and which was entered in the United States national phase pursuant to 37 U.S.C. § 371 as application Ser. No. 10/558,541 on November 28, 2005.

In the event that the filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys/agent(s) at Edwards Angell Palmer & Dodge LLP, P.O. Box 55874, Boston, Massachusetts 02205, to insert above the filing date and/or Application No. of said application.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by a Preliminary Amendment filed on November 28, 2005 concurrently with the aforementioned U.S. national phase application No. 10/558.541.

I acknowledge the duty to disclose all information known to me that is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

FOREIGN PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| x no such foreign applications have been filed | |
|--|--|
| such foreign application have been filed as follows: | |

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS RECEIVED (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Country | Date of Filing | Priority Claimed Under 35 USC 119 | . () |
|---------|----------------|--------------------------------------|--|
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| | | | |
| | Country | Country Date of Filing | Country Date of Filing Priority Claimed Under 35 USC 119 |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing |
|--------------------|---------|----------------|
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CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

| I hereby claim priority benefits under Title 35, United States Code §119(| 3), (| of a | η |
|---|-------|------|---|
| United States provisional patent application(s) listed below: | | | |

| í | 1 | | | | | | | _ |
|---|-------|-------|------|-------------|--------------|---------|-----------|-----|
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| J | , ,,, | GUOII | 0.0. | PICVISIONAL | abbuogaous | I ICA V | | ∕∙. |

| 1 | ᄱ | cuch H.C. | provicional | application | baya baan | filed as follows: |
|---|---|-----------|-------------|-------------|-----------|-------------------|
| 1 | ^ | Such O.S. | hiorigional | application | maye been | med as whoms. |

| Application Number | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|----------------|--------------------------------------|
| 60/474,068 | May 28, 2003 | X Yes No |
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CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

| X | no such U.S./PCT applications have been filed. |
|---|---|
| | such U.S./PCT application have been filed as follows: |

Page 2 of 4

| Application Number | Relationship | Parent Application | Date of Filing |
|--------------------|--------------|--------------------|----------------|
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may Jeopardize the validity of the application or any patent Issued thereon.

I hereby appoint:

All practitioners at Customer Number 48990

jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from Waters Investments Limited as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

Please mail all correspondence to Peter C. Lauro, whose address is:

Edwards Angell Palmer & Dodge LLP P.O. Box 55874 Boston, Massachusetts 02205

Please direct telephone calls to: Peter C. Lauro at (617) 439-4444.

Please direct facsimiles to: (617) 439-4170

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FAX NO.

P. 04

Attorney Docket No.: 60005US(49991)

| Full name of sole or first inventor | |
|--|------------------|
| John E. O'Gara Sole or first inventors signature | FALL |
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| Full name of second inventor, if any | |
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| Second Inventor's signature | Date |
| Residence | |
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| Full name of third inventor, if any Daniel Walsh | |
| Third Inventoria signature | Date |
| Rosidence | February 2, 2006 |
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| Citizenship US | |
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| Fourth inventor's signatum | Date |
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| Fourth inventor's signatum Residençe | Date |
| Fourth inventor's signatum | Date |
| Fourth inventor's signatum Residence Citizenship | Date |
| Fourth inventor's signatum Residence Cifizenship | Date |
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|---|
| of any foreign application(s) for patent or inventor's certificate listed below and have |
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| a filing date before that of the application on which priority is claimed: |

| X. | no such foreign applications have been filed | |
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|--------------------|---------|----------------|--------------------------------------|
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| Application Number | Country | Date of Filing |
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| ١. | I | no such U.S. | pi o tioloria. | applications | LIGHT DOCUL | 11100. |

x such U.S. provisional application have been filed as follows:

| Application Number | Date of Filing | Priority Claimed Under 35 USC 119 |
|--------------------|----------------|--------------------------------------|
| 60/474,068 | May 28, 2003 | X Yes No |
| | | |
| | | 10 16/1 |

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| X | no such U.S./P | CT applications have b | een filed | J. |
|---|----------------|------------------------|-----------|----------|
| | such U.S./PCT | application have been | filed as | follows: |

| Application Number | Relationship | Parent Application | Date of Filing |
|--------------------|--------------|--------------------|----------------|
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Edwards Angell Palmer & Dodge LLP P.O. Box 55874 Boston, Massachusetts 02205

Please direct telephone calls to: Peter C. Lauro at (617) 439-4444.

Please direct facsimiles to: (617) 439-4170

| | Full name of sole or first inventor | |
|---------------|--|---------------------------------------|
| , | John E. O'Gara | |
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| | Julia Ding | · |
| | Second Inventor's signature | Date |
| | they was | Jan. 1341 2006 |
| ŀ | Residence | Jan. 1341 2008 |
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| | Third inventor's signature | Dale |
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| | Fourth Inventor's signature | Date |
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